

ABSTRACT OF THE DISCLOSURE

To provide a A manufacturing apparatus ~~that is capable of manufacturing metal-ceramic composite members in various shapes with high productivity, and a mold member and a manufacturing method therefor.~~ An apparatus for manufacturing a metal-ceramic composite member ~~was made, the apparatus including:~~ has a plurality of process regions, namely, an atmosphere replacing/heating ~~part 11, part,~~ a molten metal push-out ~~part 21, part,~~ and a cooling ~~part 31; part;~~ and a ~~guide 48~~ guide for allowing a mold to pass through these plural process ~~regions, regions.~~ The molds 60 having molds have ceramic members 86 members placed therein and are successively inserted into a mold ~~inlet 43~~ inlet provided in ~~this guide 48~~ the guide to pass through the ~~guide 48~~ guide practically in a shielded state from the atmosphere, ~~a atmosphere.~~ A molten metal 53 metal is poured thereto in the molten-metal push-out ~~part 21, part,~~ and the molten ~~metal 53~~ metal is cooled and solidified in the cooling ~~part 31~~ part to join a metal and a ceramic, thereby manufacturing the metal-ceramic composite member.